

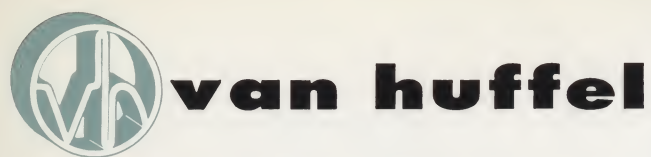
TUBING

ROLLER DIE, COLD FORMED

METAL

SHAPES

VanHuffel
WESTERN CORPORATION



WELDED • LOCK SEAM • BUTTED

TUBING.

Whether you build buildings or bombers, tractors or television sets, materials handling equipment or metal furniture, more than likely Van Huffer can help you produce them.

FASTER because cold formed parts require very little machining; parts come to you shaped, cut, punched, or bent to your specifications.

BETTER because of the wider latitude in choice of materials, design possibilities and fabrication methods.

At **GREATER SAVINGS** because of the high strength-to-weight ratio you can, in many cases, use lighter gauges, or smaller sizes in place of solid metals. Parts are uniform in thickness, free from scale and ready for any desired finish.

For over half a century designers have found Van Huffer a dependable source for tubing in a wide range of type, grades, sizes and finishes.

MATERIALS

Hot or cold rolled steel, stainless steel, high strength steels, coated steels, aluminum, copper, brass, painted, plated metals or bimetal materials.

TYPES

Welded (round, square, rectangular), Lock Seam, Butted and special shapes.

COMMON SIZE RANGE (WELDED)

ROUND— $\frac{1}{2}$ " O.D.—.028 to .049 wall; to 6" O.D.—.065 to .238 wall.

SQUARE— $\frac{3}{8}$ "—.028 to .065 wall; to 4"—.065 to .250.

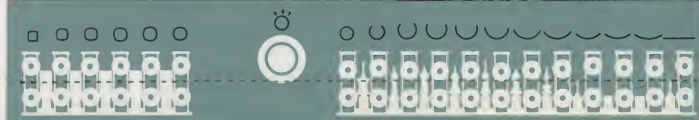
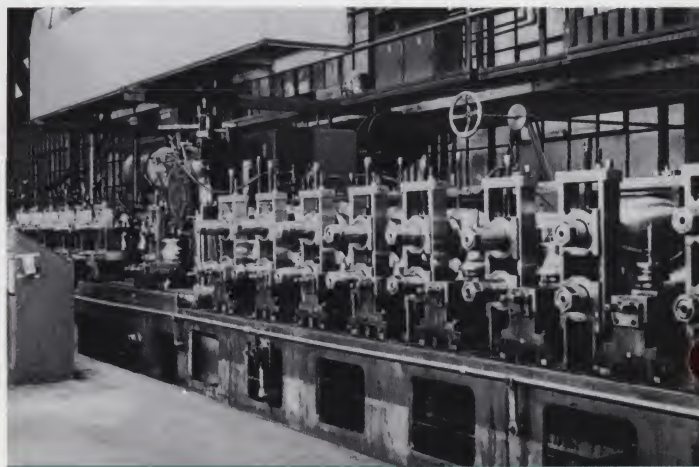
RECTANGULAR—.263 x .760—.028 to .049 wall; 4" x 6"—.165 to .238 wall.

For intermediate sizes, write for Welded Tubing Handbook described on back page.

FABRICATION

Notching, bending, punching, tapering, flanging, beading, coiling.

This typical Van Huffer mill cold forms and welds tubing or shapes from coiled strip metal in continuous lengths.



WELDED
TUBING

LOCK SEAM
TUBING

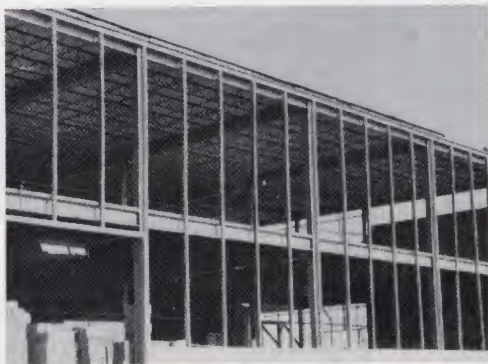
OPEN SEAM
AND BUTTED
TUBING

from furniture to farm equipment Van Huffel tubing simplifies design...

While the average individual usually thinks of tubing as round . . . the design engineer knows it as a basic material available in a variety of shapes and a wide range of sizes and gages.

Early developments in the use of welded steel tubing for bicycle frames, farm implements, household and office appliances demonstrated the practicability of tubular design. Today, automotive and aircraft engineers, architects and designers are profitably capitalizing on its features of strength, lightness and ease of fabrication.

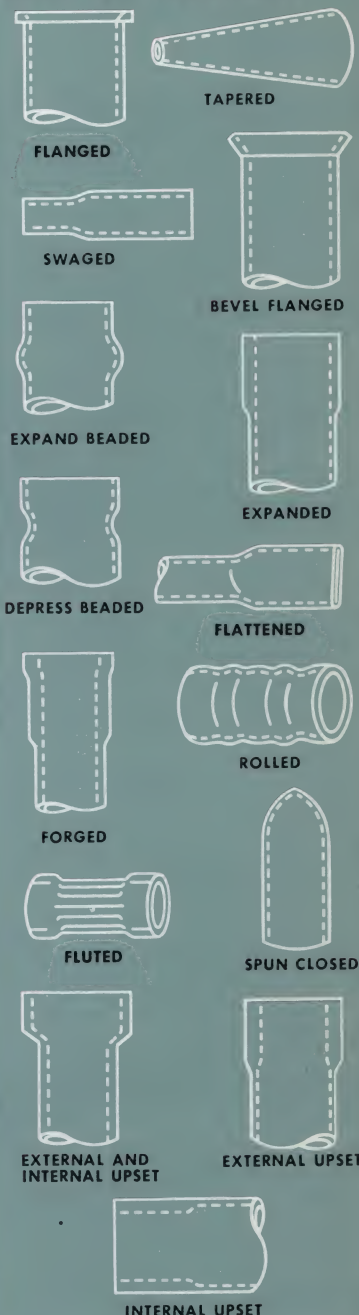
Illustrated are typical ideas that have taken shape in metal at Van Huffel for a wide variety of applications.



The tubular form is engineering's most efficient structural section—and *welded* steel tubing offers in addition the greatest uniformity and formability of them all.



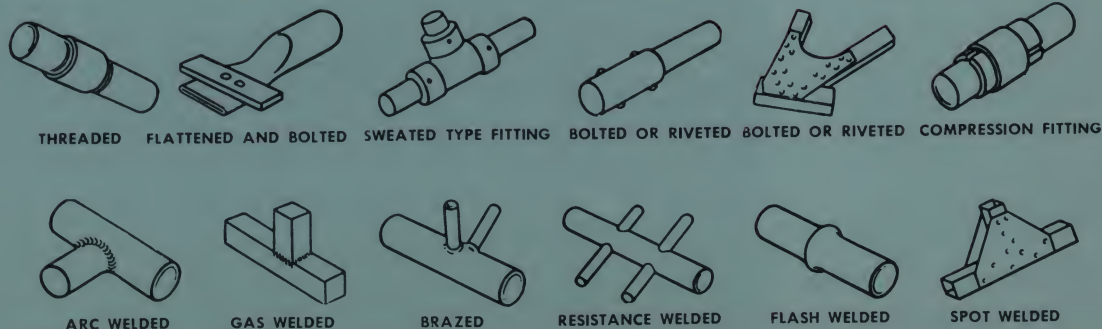
EASY TO FABRICATE ...

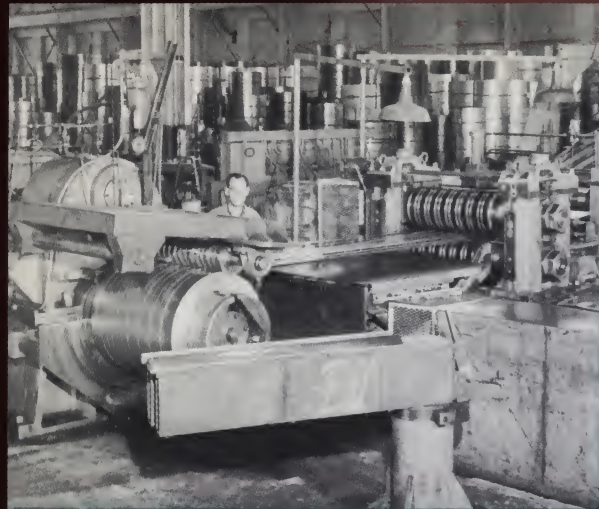


EASY

TO

JOIN ...

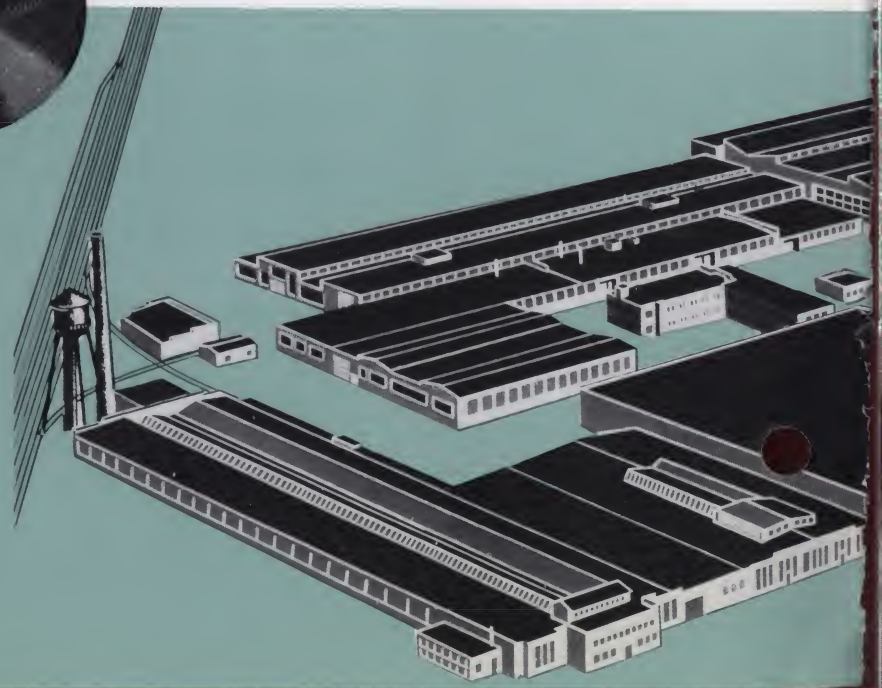
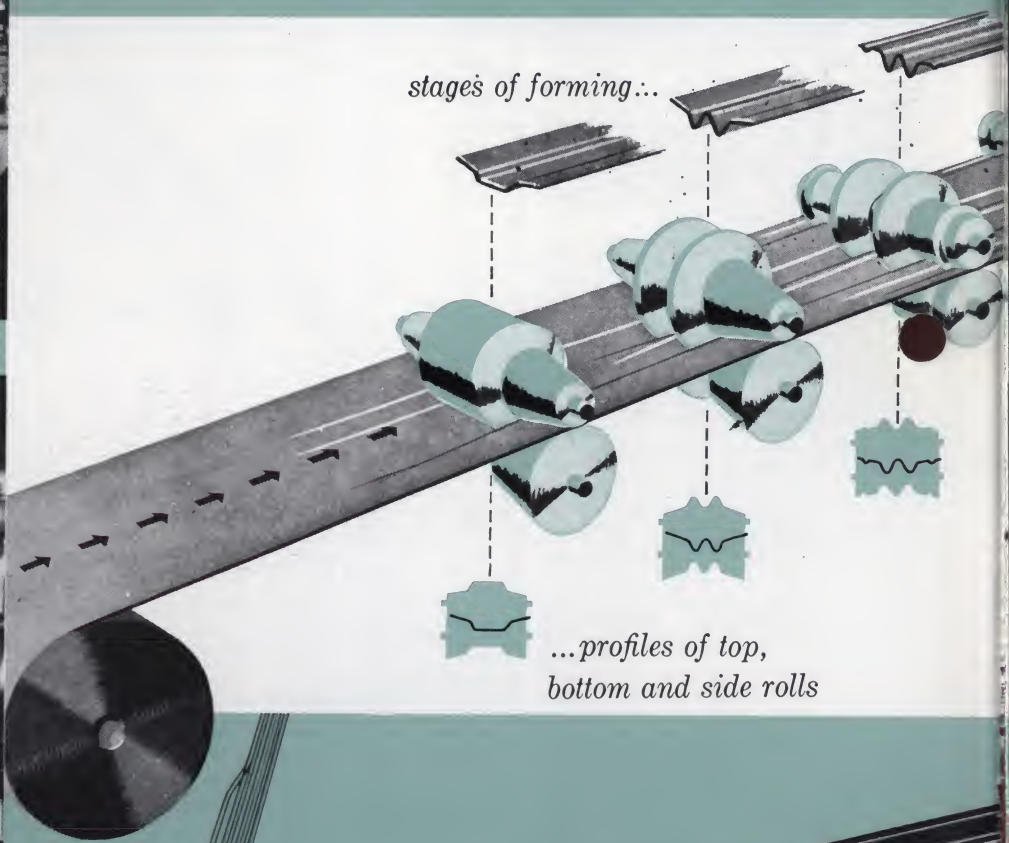
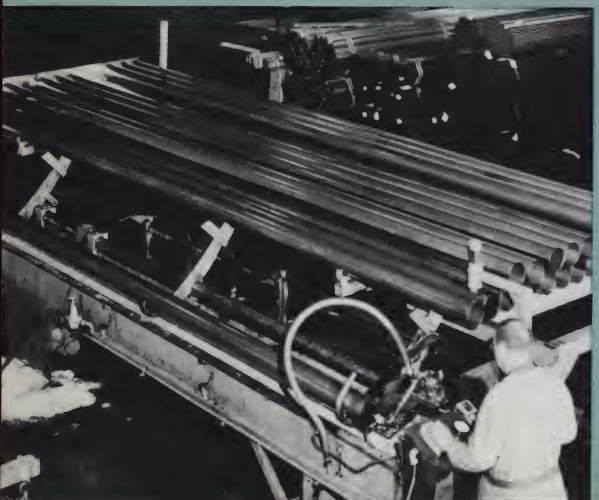
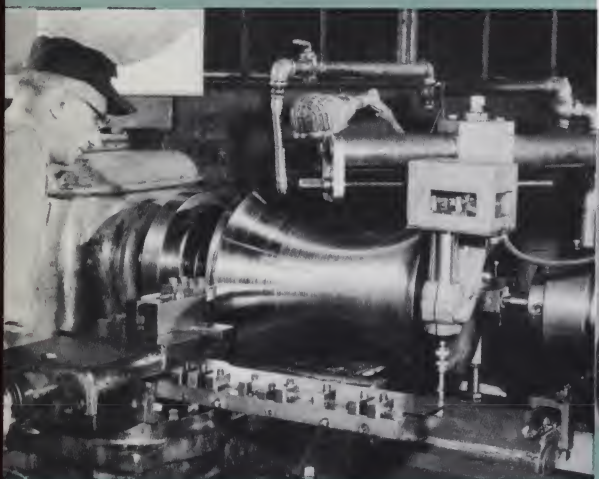




an idea takes shape in metal

Ever see an idea taking shape in metal? Here's one shown going through the mill. It's a "T" section used for installing metal acoustical ceiling and is but one of thousands of different ideas Van Huffel has cold formed for a wide variety of industries for over half a century.

Other illustrations on these pages will give an idea of Van Huffel's highly efficient engineering and production facilities for producing roller die, cold formed metal shapes and tubing completely under one roof . . . from slitting the material to the proper width . . . designing and building our own rolls, dies and mills . . . testing facilities . . . automatic cut-off equipment . . . off the machine coiling . . . bending . . . modern hot dip painting.



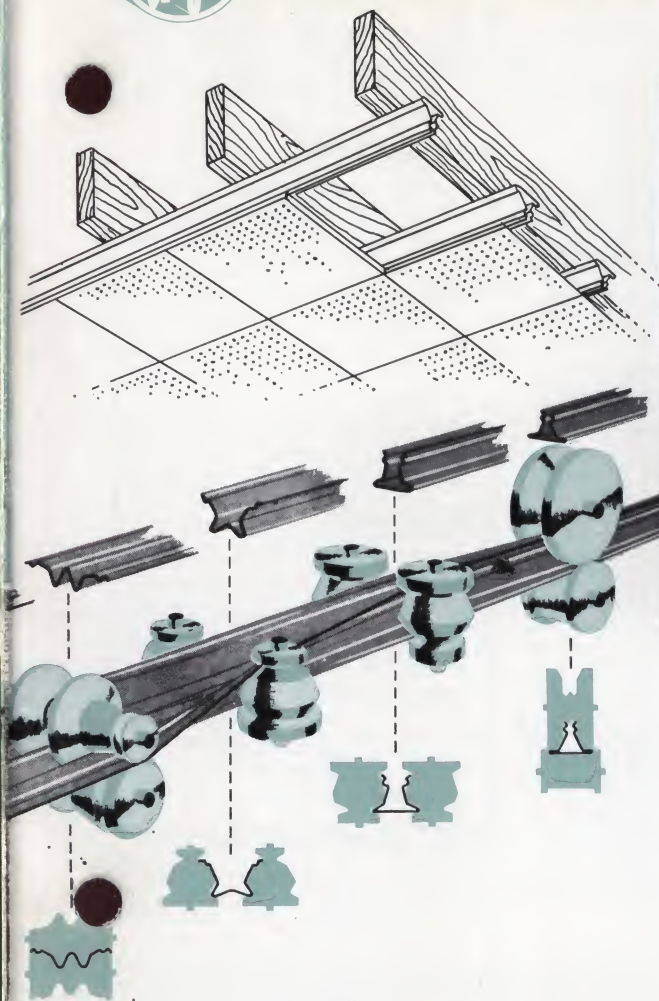


van huffel

ROLLER DIE, COLD FORMED

2b
VA

SHAPES

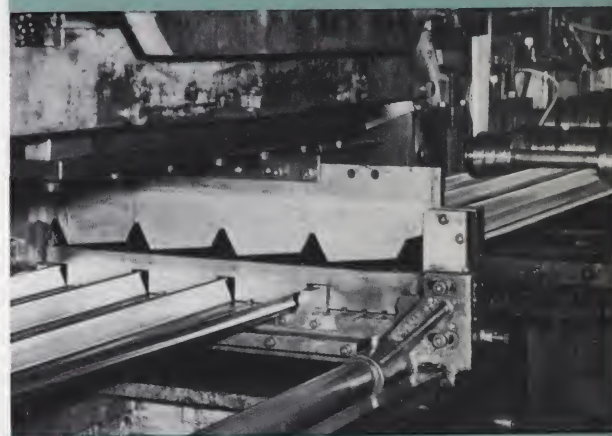
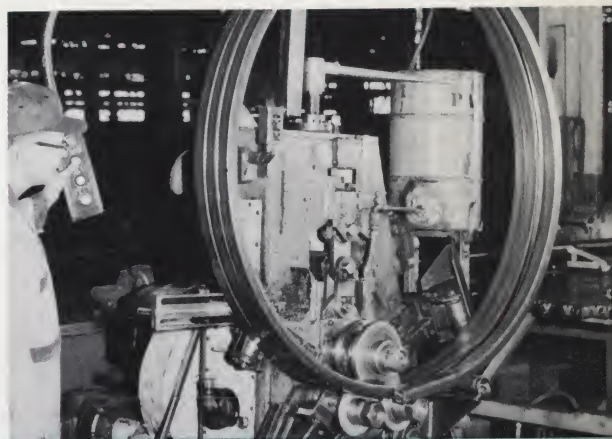


This shows
finished acoustical
ceiling "T"
section which
can be cut off
in any desired
lengths.

Complete facilities, a modern plant, plus a skilled staff of engineers, metallurgists and over a half century of experience are the reasons the name Van Huffel has become the standard for comparison in the industry and your assurance of quality products throughout each phase of manufacture.



*Where ideas
take shape in metal
for the industries
that serve the nation*





van huffer

ROLLER DIE, COLD FORMED

SHAPES

DESCRIPTION

Roller die, cold forming is the process of continuous shaping, without heat, ductile sheet or strip metal with a series of progressive forming rolls. The process has few limitations and therefore gives the designer a free hand to devise shapes of metal that may serve a multiplicity of functions. This advantage is combined with high strength and low weight.

USES

Because of its high production potential and adaptability to the forming of either simple or complex shapes, the process is ideally suited for the manufacture of round, square and special shaped tubing, strut sections, panels, angles, channels, structural members, coiled sections and many other components. These parts serve such widely diverse fields as material handling, building construction, communications, transportation, farm implements, furniture and appliances.

MATERIALS

Any of the common metals—hot or cold rolled steel, stainless steel, high strength steels, coated steels, aluminum, copper, brass—as well as painted or plated metals or bimetal sections can be formed.

ADVANTAGES

In addition to the production advantages there are many benefits of the process from the design viewpoint: (1) structural sections, if properly designed, have a high strength-to-weight ratio; (2) parts can be fluted, seamed, notched, beveled, welded, punched, coiled, curved and embossed; (3) the finish of the stock is not marred; (4) tolerances in thousandths of an inch can be held, depending on the accuracy of the stock as it comes from the mill and on the size and shape of the section.

SIZE RANGE

The maximum width of strip that can be cold rolled into a section is 33 inches. This together with the fact that the height of any section cannot normally exceed 5" determines the maximum size of section that can be produced by normal rolling methods. All sections are formed from metal strip of uniform thickness up to a maximum of .312 gauge and a minimum of .003 gauge.

METAL SHAPE HANDBOOK

For detailed description of roller die, cold forming write for 48 page handbook scribbled on the back page.

*Typical ideas that have
taken shape in metal
for a variety of
industrial applications*



SECTIONS FOR
BASEBOARD
HEATING



BUILDING CONSTRUCTION

Door and Window Sash
Lighting Fixtures
Garage Door Track
Wireway Channel
Garage Door Panels
Air Conditioning
Partitions
Railings
Door Frames



SECTION FOR
SICKLE BAR



FARM EQUIPMENT

Poultry Feeders
Power Take-off Shields
Mower, Tractor
Combine Parts
Auger Type Conveyors
Tank Rails
Hitch Tubing
Exhaust Pipes
Animal Stalls



SECTION FOR
TRUCK TRAILERS



MATERIALS HANDLING

Storage Racks
Conveyor Systems
Truck Rub Rails
Trailer Frames
Elevators
Lift Truck Parts
Railroad Equipment
Automatic Pin Spotters
Road Machinery

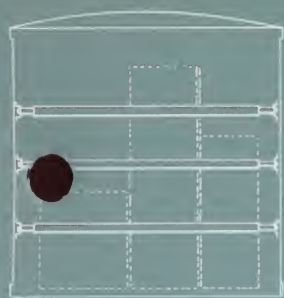


DRAWER SLIDE
SECTIONS



METAL FURNITURE

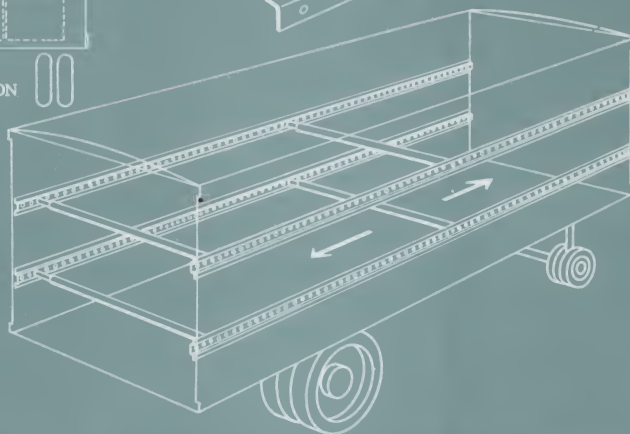
Folding Chairs
Beds
Card Tables
Lamps
Lawn Furniture
Kitchen Equipment
Costumers
Hospital Equipment
Office Equipment
Washer, Dryer
Stove Parts



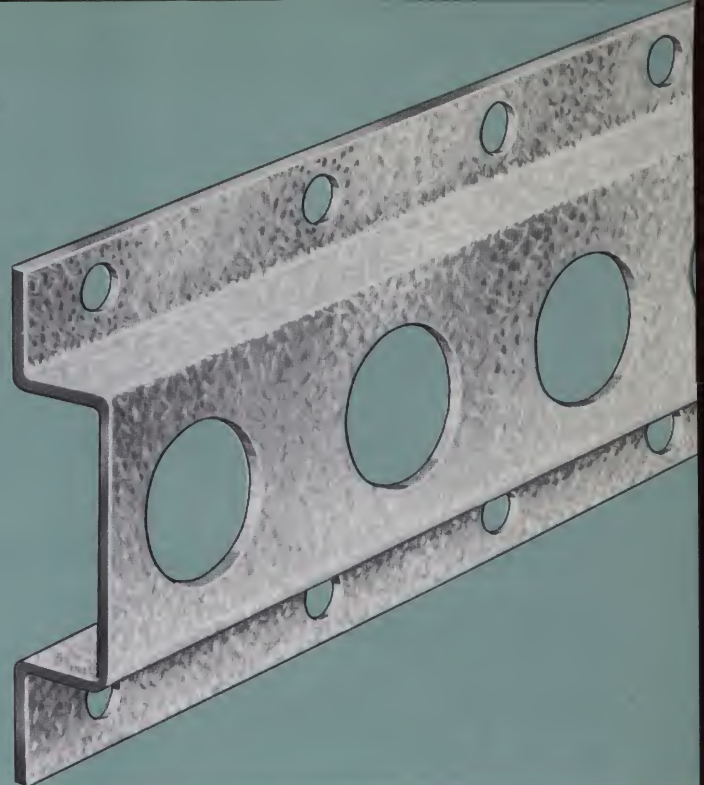
3 TRACK
INSTALLATION

END USE:

Track for shoring
system in trucks,
planes, etc. Tubu-
lar bars or nylon
webbing is used for
bulkheads.



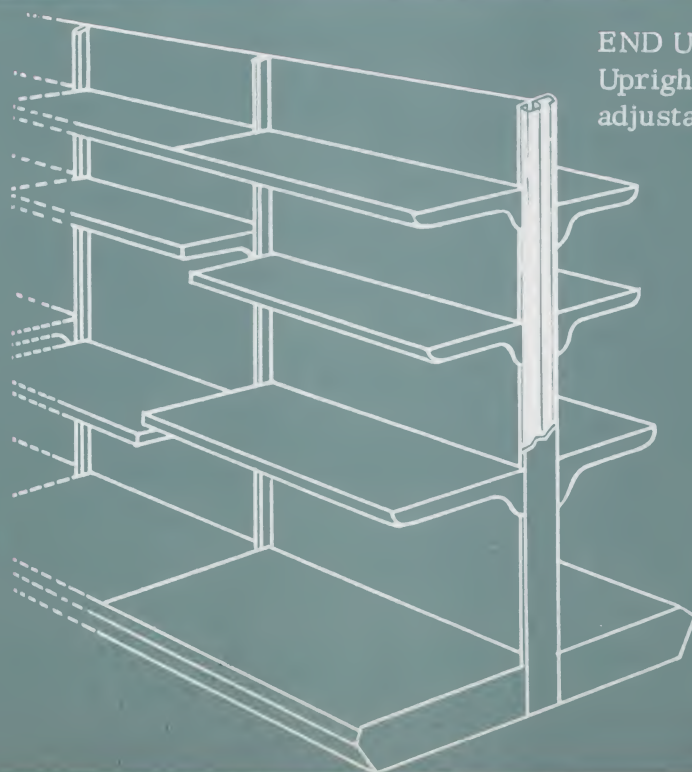
DETAIL OF CYLINDER BEAM
AND SHORING BAR



unlimited opportunities for design with Van Huffer metal shapes

Never before in history has industry faced such an urgent need for such a variety and volume of products. And never before has the design engineer enjoyed such latitude in the materials and methods available for exercising his skill in fulfilling that demand. Since new ideas are often inspired by what has been done in the past, we have illustrated a few examples on these pages showing how cold formed metal

shapes have been fabricated and adapted to many products. Studying these pages may spark the idea for that new product or may solve a troublesome production problem of your present product. As competition brings demands for simplifying parts and lowering costs we invite you to consult us on the possibility of doing the job better and more economically with Van Huffer roller die, cold formed metal shapes and tubing.



END USE:

Upright post for
adjustable shelving.



SPECIALISTS IN ROLLER DIE, COLD FORMED METAL SHAPES AND TUBING FOR OVER HALF A CENTURY

Van Huffel maintains a fully equipped and expertly staffed machine shop where all tooling for every phase of metal tubing and shape manufacture is designed and built. Hence, there is not divided responsibility, and the men who build the tools service the tools when required in production.

If you are confronted with an idea for product development or improvement, it will pay you to call on Van Huffel—where ideas have been taking shape in metal for over half a century.

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MINNEAPOLIS, MINNESOTA

5009 Excelsior Boulevard
Phone: Walnut 6-5571

KANSAS CITY 12, MISSOURI

1412 West 50th Street
Phone: Jefferson 13883

ST. LOUIS 8, MISSOURI

Suite 612 and 614
3903 Olive Street
Phone: Jefferson 5-3155

MORRISTOWN, NEW JERSEY

10 Pine Street
Phone: Jefferson 88810

BUFFALO 14, NEW YORK

323 Huntington Avenue
Phone: Winton 4466

CINCINNATI 26, OHIO

822 Delta Avenue
Phone: East 1-2711 and 2-8559

TULSA 14, OKLAHOMA

250 E. Sunset Drive
Phone: Luther 24894

SILVERTON, OREGON

P.O. BOX 336
Phone: Trinity 37835

MERION STATION, PENNSYLVANIA

314 Old Lancaster Road
Phone: Mohawk 4-5450

DALLAS 1, TEXAS

504 Interurban Building
Phone: Riverside 76121

THIENSVILLE, WISCONSIN

P.O. Box 176
Phone: Chestnut 2-0233
(Answering Service:
Milwaukee, Broadway 1-1414)

WELDED TUBING STOCKS AVAILABLE FROM RECOGNIZED WAREHOUSES IN PRINCIPAL CITIES



van huffel
WESTERN CORPORATION

4757 E. Slauson Ave.

MAIN OFFICE: Maywood, California

HELPFUL VAN HUFFEL LITERATURE

These handy catalogs, containing a wealth of engineering data arranged in ready reference form, are available without cost or obligation.



OPEN SHAPE CATALOG

48 pages illustrating (actual size) over 500 metal shapes for which rolls and dies are available at no tooling costs.

WELDED TUBING HANDBOOK

36 pages of engineering data, weights, sizes, tolerances, physical properties, etc., on square and rectangular welded tubing.

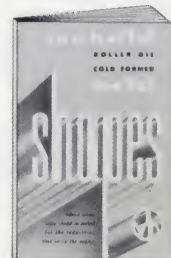


SIZE BROCHURE

24 pages listing sizes and gauges on Van Huffel Lock Seam, Butted and Welded Tubing; Angles and Channels.

METAL SHAPES HANDBOOK

48 pages of information on material selection, fabrication methods, tolerances for roll forming and dozens of illustrated ideas that have taken shape in metal.



Litho in U.S.A. SW-61

OFFICES IN: San Francisco, California
Portland, Oregon

SPECIALISTS IN ROLLER DIE, COLD FORMED METAL SHAPES AND TUBING FOR OVER HALF A CENTURY

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VAN H

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RECOGNIZED**

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FOR
PRESERVATION
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INTERNATIONAL

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CATALOG

(all size) over 500
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